

WEST Search History

DATE: Wednesday, April 07, 2004

Hide?	<u>Set</u> <u>Name</u>	<u>Query</u>	<u>Hit</u> <u>Count</u>
	<i>DB=PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD; PLUR=YES; OP=ADJ</i>		
<input type="checkbox"/>	L22	L16 and (nonconductive or non-conductive or "non conductive")	5
<input type="checkbox"/>	L21	L20 and (nonconductive or non-conductive or "non conductive")	0
<input type="checkbox"/>	L20	L16 and (linear\$4)	2
<input type="checkbox"/>	L19	L18 and (linear\$4)	0
<input type="checkbox"/>	L18	L17 and (nonconductive or non-conductive or "non conductive")	4
<input type="checkbox"/>	L17	L16 and (parallel with switch\$4)	9
<input type="checkbox"/>	L16	L12 and ((steer\$3 or control\$4 or direct\$4 or divert\$3) with current)	14
<input type="checkbox"/>	L15	L12 and ((steer\$3 or control\$4 or direct\$4 or divert\$3) with current)	14
<input type="checkbox"/>	L14	L12 and ((steer\$3 or control\$4 or direct\$5 or divert\$3) with current)	14
<input type="checkbox"/>	L13	L12 and ((steer\$4 or control\$4 or direct\$5 or divert\$3) with current)	14
<input type="checkbox"/>	L12	L11 and (circuit\$3)	14
<input type="checkbox"/>	L11	L10 and (source or load\$4 or inductor or inductor or capacitor or resistor or resistor or thyristor or thyristor or diode)	14
<input type="checkbox"/>	L10	L9 and ((magnitude with current) with (threshold\$4 or cutoff or cut-off or "cut off" or (value with (maximum or minimum))))	14
<input type="checkbox"/>	L9	L7 and ((antiparallel or anti-parallel or "anti parallel" or "back to back" or back-to-back or backtoback) with ((silicon with control\$3 with rectifier) or SCR))	53
<input type="checkbox"/>	L8	L7 and (antiparallel or anti-parallel or "anti parallel" or "back to back" or back-to-back or backtoback)	125
<input type="checkbox"/>	L7	L6 and (transistor or transistor)	1255
<input type="checkbox"/>	L6	L5 and ((silicon with control\$3 with rectifier) or SCR)	1685
<input type="checkbox"/>	L5	L4 and (threshold\$4 or cutoff or cut-off or "cut off" or (value with (maximum or minimum))))	15242
<input type="checkbox"/>	L4	L3 and (switch\$4)	25391
<input type="checkbox"/>	L3	L1 and ((mode or phas\$3) with (operat\$3 or operational\$2 or driv\$3))	34593
<input type="checkbox"/>	L2	L1 and ((mode or phas\$4) with (operat\$4 or operational\$2))	31639
<input type="checkbox"/>	L1	(magnitude with current)	104322

END OF SEARCH HISTORY

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[Generate OACS](#)

Search Results - Record(s) 1 through 14 of 14 returned.

☐ 1. Document ID: US 6603221 B1

Using default format because multiple data bases are involved.

L11: Entry 1 of 14

File: USPT

Aug 5, 2003

US-PAT-NO: 6603221

DOCUMENT-IDENTIFIER: US 6603221 B1

TITLE: Solid state electrical switch

DATE-ISSUED: August 5, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Liu; Zhongdu	San Jose	CA	95101	

US-CL-CURRENT: 307/125; 307/130, 307/131

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWOC	Draw. Es
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☐ 2. Document ID: US 6462974 B1

L11: Entry 2 of 14

File: USPT

Oct 8, 2002

US-PAT-NO: 6462974

DOCUMENT-IDENTIFIER: US 6462974 B1

TITLE: Space vector modulation-based control method and apparatus for three-phase pulse width modulated AC voltage regulators

DATE-ISSUED: October 8, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Jadric; Ivan	York	PA		

US-CL-CURRENT: 363/127; 363/132, 363/137

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWOC	Draw. Es
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☐ 3. Document ID: US 6388896 B1

L11: Entry 3 of 14

File: USPT

May 14, 2002

US-PAT-NO: 6388896

DOCUMENT-IDENTIFIER: US 6388896 B1

TITLE: Lossless switching converter with DC transformer

DATE-ISSUED: May 14, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Cuk; Slobodan	Laguna Hills	CA	92653	

US-CL-CURRENT: 363/16

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	FIGS	Drawings
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☐ 4. Document ID: US 5751525 A

L11: Entry 4 of 14

File: USPT

May 12, 1998

US-PAT-NO: 5751525

DOCUMENT-IDENTIFIER: US 5751525 A

TITLE: EOS/ESD Protection circuit for an integrated circuit with operating/test voltages exceeding power supply rail voltages

DATE-ISSUED: May 12, 1998

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Olney; Andrew H.	Burlington	MA		

US-CL-CURRENT: 361/56; 361/111, 361/127

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	FIGS	Drawings
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☐ 5. Document ID: US 5528445 A

L11: Entry 5 of 14

File: USPT

Jun 18, 1996

US-PAT-NO: 5528445

DOCUMENT-IDENTIFIER: US 5528445 A

TITLE: Automatic fault current protection for a locomotive propulsion system

DATE-ISSUED: June 18, 1996

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Cooke; Philip R.	Erie	PA		
Laukaitis; Joseph A.	Erie	PA		

US-CL-CURRENT: 361/20; 361/18, 361/30, 361/93.1

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KMC	Drawings
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☐ 6. Document ID: US 5528444 A

L11: Entry 6 of 14

File: USPT

Jun 18, 1996

US-PAT-NO: 5528444

DOCUMENT-IDENTIFIER: US 5528444 A

TITLE: Automatic overvoltage protection for an alternator in a locomotive propulsion system

DATE-ISSUED: June 18, 1996

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Cooke; Philip R.	Erie	PA		
Laukaitis; Joseph A.	Erie	PA		

US-CL-CURRENT: 361/20; 361/115, 361/18, 361/21

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KMC	Drawings
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☐ 7. Document ID: US 4727305 A

L11: Entry 7 of 14

File: USPT

Feb 23, 1988

US-PAT-NO: 4727305

DOCUMENT-IDENTIFIER: US 4727305 A

TITLE: Multi-function control system for an induction motor drive

DATE-ISSUED: February 23, 1988

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Muskovac; Nicholas G.	Palm Harbor	FL		
Daggett; Kenneth E.	Murrysville	PA		

US-CL-CURRENT: 318/798; 318/452, 318/806

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KMC	Drawings
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☐ 8. Document ID: US 4677364 A

L11: Entry 8 of 14

File: USPT

Jun 30, 1987

US-PAT-NO: 4677364

DOCUMENT-IDENTIFIER: US 4677364 A

TITLE: Reactive power compensating system

DATE-ISSUED: June 30, 1987

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Williams; Timothy J.	Redondo Beach	CA		
El-Sharkawi; Mohamed A.	Renton	WA		
Venkata; Subrahmanyam S.	Seattle	WA		

US-CL-CURRENT: 322/47; 318/729, 322/95, 323/210, 323/211

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	MMIC	Draw D
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☐ 9. Document ID: US 4523269 A

L11: Entry 9 of 14

File: USPT

Jun 11, 1985

US-PAT-NO: 4523269

DOCUMENT-IDENTIFIER: US 4523269 A

TITLE: Series resonance charge transfer regulation method and apparatus

DATE-ISSUED: June 11, 1985

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Baker; Richard H.	Bedford	MA		
Chu; David L.	Summit	NJ		
Chambers; Derek	Bayville	NY		

US-CL-CURRENT: 363/138; 307/110, 363/17, 363/43, 363/98

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	MMIC	Draw D
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☐ 10. Document ID: US 4369403 A

L11: Entry 10 of 14

File: USPT

Jan 18, 1983

US-PAT-NO: 4369403

DOCUMENT-IDENTIFIER: US 4369403 A

TITLE: Power factor controller for induction motor

DATE-ISSUED: January 18, 1983

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Lee; Maw H.	Broadview Heights	OH		

US-CL-CURRENT: 318/729; 318/812

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	NUMC	Draw D
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☐ 11. Document ID: US 4047235 A

L11: Entry 11 of 14

File: USPT

Sep 6, 1977

US-PAT-NO: 4047235

DOCUMENT-IDENTIFIER: US 4047235 A

TITLE: Current limit and overcurrent cut off system

DATE-ISSUED: September 6, 1977

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Davis; Richard Kent	Salem	VA		

US-CL-CURRENT: 361/100; 323/243, 323/906, 361/94, 363/51

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	NUMC	Draw D
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☐ 12. Document ID: US 3697839 A

L11: Entry 12 of 14

File: USPT

Oct 10, 1972

US-PAT-NO: 3697839

DOCUMENT-IDENTIFIER: US 3697839 A

TITLE: BRIDGE CIRCUIT CONTROLLER AND PROCESS FOR SUPPLYING ELECTRICAL ENERGY TO A VARIABLE RELUCTANCE MOTOR

DATE-ISSUED: October 10, 1972

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Unnewehr; Lewis E.	Birmingham	MI		

US-CL-CURRENT: 318/138; 318/701

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	NUMC	Draw D
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☐ 13. Document ID: US 3629613 A

L11: Entry 13 of 14

File: USPT

Dec 21, 1971

US-PAT-NO: 3629613

DOCUMENT-IDENTIFIER: US 3629613 A

TITLE: COMMUTATION DIRECTION CIRCUIT

DATE-ISSUED: December 21, 1971

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Feige; Edgar P.	Chester	PA		

US-CL-CURRENT: 327/461; 361/93.6

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	NUMC	Draw. De
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☐ 14. Document ID: US 3019355 A

L11: Entry 14 of 14

File: USOC

Jan 30, 1962

US-PAT-NO: 3019355

DOCUMENT-IDENTIFIER: US 3019355 A

TITLE: Magnetic silicon controlled rectifier power amplifier

DATE-ISSUED: January 30, 1962

INVENTOR-NAME: EVAN MORGAN RAYMOND

US-CL-CURRENT: 307/417; 327/448, 327/460, 327/569, 331/111, 331/113S, 361/204,
363/130

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	NUMC	Draw. De
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Clear	Generate Collection	Print	Fwd Refs	Bkwd Refs	Generate OACS
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Term	Documents
SOURCE	2887427
SOURCES	672173
INDUCTOR	90725
INDUCTORS	33751
INDUCTER	75
INDUCTERS	14
CAPACITOR	581330

CAPACITORS	228722
RISISTER	0
RISISTERS	0
RESISTOR	563103
(L10 AND (SOURCE OR LOAD\$4 OR INDUCTOR OR INDUCTER OR CAPACITOR OR RISISTER OR RESISTOR OR THYRISTOR OR THYRISTER OR DIODE)).PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD.	14

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☐ 1. Document ID: US 5528445 A

Using default format because multiple data bases are involved.

L18: Entry 1 of 4

File: USPT

Jun 18, 1996

US-PAT-NO: 5528445

DOCUMENT-IDENTIFIER: US 5528445 A

TITLE: Automatic fault current protection for a locomotive propulsion system

DATE-ISSUED: June 18, 1996

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Cooke; Philip R.	Erie	PA		
Laukaitis; Joseph A.	Erie	PA		

US-CL-CURRENT: 361/20; 361/18, 361/30, 361/93.1

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	NUMC	Draw D
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☐ 2. Document ID: US 5528444 A

L18: Entry 2 of 4

File: USPT

Jun 18, 1996

US-PAT-NO: 5528444

DOCUMENT-IDENTIFIER: US 5528444 A

TITLE: Automatic overvoltage protection for an alternator in a locomotive propulsion system

DATE-ISSUED: June 18, 1996

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Cooke; Philip R.	Erie	PA		
Laukaitis; Joseph A.	Erie	PA		

US-CL-CURRENT: 361/20; 361/115, 361/18, 361/21

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	NUMC	Draw D
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☐ 3. Document ID: US 3629613 A

L18: Entry 3 of 4

File: USPT

Dec 21, 1971

US-PAT-NO: 3629613

DOCUMENT-IDENTIFIER: US 3629613 A

TITLE: COMMUTATION DIRECTION CIRCUIT

DATE-ISSUED: December 21, 1971

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Feige; Edgar P.	Chester	PA		

US-CL-CURRENT: 327/461; 361/93.6

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWIC	Draw. Des
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☐ 4. Document ID: US 3019355 A

L18: Entry 4 of 4

File: USOC

Jan 30, 1962

US-PAT-NO: 3019355

DOCUMENT-IDENTIFIER: US 3019355 A

TITLE: Magnetic silicon controlled rectifier power amplifier

DATE-ISSUED: January 30, 1962

INVENTOR-NAME: EVAN MORGAN RAYMOND

US-CL-CURRENT: 307/417; 327/448, 327/460, 327/569, 331/111, 331/113S, 361/204,
363/130

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWIC	Draw. Des
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Clear	Generate Collection	Print	Fwd Refs	Bkwd Refs	Generate OACS
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Term	Documents
NONCONDUCTIVE	54511
NONCONDUCTIVES	0
NON-CONDUCTIVE	91795
NON-CONDUCTIVES	2
"NON CONDUCTIVE"	0
(17 AND (NONCONDUCTIVE OR NON-CONDUCTIVE OR	

"NON CONDUCTIVE"))PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD.	4
(L17 AND (NONCONDUCTIVE OR NON-CONDUCTIVE OR "NON CONDUCTIVE"))PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD.	4

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Search Results - Record(s) 1 through 2 of 2 returned.

☐ 1. Document ID: US 6388896 B1

Using default format because multiple data bases are involved.

L20: Entry 1 of 2

File: USPT

May 14, 2002

US-PAT-NO: 6388896

DOCUMENT-IDENTIFIER: US 6388896 B1

TITLE: Lossless switching converter with DC transformer

DATE-ISSUED: May 14, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Cuk; Slobodan	Laguna Hills	CA	92653	

US-CL-CURRENT: 363/16

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	Know	Draw. De
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☐ 2. Document ID: US 4047235 A

L20: Entry 2 of 2

File: USPT

Sep 6, 1977

US-PAT-NO: 4047235

DOCUMENT-IDENTIFIER: US 4047235 A

TITLE: Current limit and overcurrent cut off system

DATE-ISSUED: September 6, 1977

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Davis; Richard Kent	Salem	VA		

US-CL-CURRENT: 361/100; 323/243, 323/906, 361/94, 363/51

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	Know	Draw. De
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Term	Documents
LINEAR\$4	0
LINEAR	1099659
LINEARA	10
LINEARABLY	3
LINEARACTY	1
LINEARADD	1
LINEARADJ	1
LINEARAE	2
LINEARAIID	1
LINEARAIR	1
LINEARAITY	1
(L16 AND (LINEAR\$4)).PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD.	2

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Search Results - Record(s) 1 through 2 of 2 returned.

☐ 1. Document ID: US 6388896 B1

Using default format because multiple data bases are involved.

L20: Entry 1 of 2

File: USPT

May 14, 2002

US-PAT-NO: 6388896

DOCUMENT-IDENTIFIER: US 6388896 B1

TITLE: Lossless switching converter with DC transformer

DATE-ISSUED: May 14, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Cuk; Slobodan	Laguna Hills	CA	92653	

US-CL-CURRENT: 363/16

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWOC	Draw De
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☐ 2. Document ID: US 4047235 A

L20: Entry 2 of 2

File: USPT

Sep 6, 1977

US-PAT-NO: 4047235

DOCUMENT-IDENTIFIER: US 4047235 A

TITLE: Current limit and overcurrent cut off system

DATE-ISSUED: September 6, 1977

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Davis; Richard Kent	Salem	VA		

US-CL-CURRENT: 361/100; 323/243, 323/906, 361/94, 363/51

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWOC	Draw De
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Term	Documents
LINEAR\$4	0
LINEAR	1099659
LINEARA	10
LINEARABLY	3
LINEARACTY	1
LINEARADD	1
LINEARADJ	1
LINEARAE	2
LINEARAIID	1
LINEARAIR	1
LINEARAITY	1
(L16 AND (LINEAR\$4)).PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD.	2

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Search Results - Record(s) 1 through 5 of 5 returned.

☐ 1. Document ID: US 5528445 A

Using default format because multiple data bases are involved.

L22: Entry 1 of 5

File: USPT

Jun 18, 1996

US-PAT-NO: 5528445

DOCUMENT-IDENTIFIER: US 5528445 A

TITLE: Automatic fault current protection for a locomotive propulsion system

DATE-ISSUED: June 18, 1996

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Cooke; Philip R.	Erie	PA		
Laukaitis; Joseph A.	Erie	PA		

US-CL-CURRENT: 361/20; 361/18, 361/30, 361/93.1

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWIC	Draw D
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☐ 2. Document ID: US 5528444 A

L22: Entry 2 of 5

File: USPT

Jun 18, 1996

US-PAT-NO: 5528444

DOCUMENT-IDENTIFIER: US 5528444 A

TITLE: Automatic overvoltage protection for an alternator in a locomotive propulsion system

DATE-ISSUED: June 18, 1996

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Cooke; Philip R.	Erie	PA		
Laukaitis; Joseph A.	Erie	PA		

US-CL-CURRENT: 361/20; 361/115, 361/18, 361/21

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWIC	Draw D
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☐ 3. Document ID: US 3697839 A

L22: Entry 3 of 5

File: USPT

Oct 10, 1972

US-PAT-NO: 3697839

DOCUMENT-IDENTIFIER: US 3697839 A

TITLE: BRIDGE CIRCUIT CONTROLLER AND PROCESS FOR SUPPLYING ELECTRICAL ENERGY TO A VARIABLE RELUCTANCE MOTOR

DATE-ISSUED: October 10, 1972

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Unnewehr; Lewis E.	Birmingham	MI		

US-CL-CURRENT: 318/138; 318/701

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	NUMC	Drawn
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☐ 4. Document ID: US 3629613 A

L22: Entry 4 of 5

File: USPT

Dec 21, 1971

US-PAT-NO: 3629613

DOCUMENT-IDENTIFIER: US 3629613 A

TITLE: COMMUTATION DIRECTION CIRCUIT

DATE-ISSUED: December 21, 1971

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Feige; Edgar P.	Chester	PA		

US-CL-CURRENT: 327/461; 361/93.6

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	NUMC	Drawn
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☐ 5. Document ID: US 3019355 A

L22: Entry 5 of 5

File: USOC

Jan 30, 1962

US-PAT-NO: 3019355

DOCUMENT-IDENTIFIER: US 3019355 A

TITLE: Magnetic silicon controlled rectifier power amplifier

DATE-ISSUED: January 30, 1962

INVENTOR-NAME: EVAN MORGAN RAYMOND

US-CL-CURRENT: [307/417](#); [327/448](#), [327/460](#), [327/569](#), [331/111](#), [331/113S](#), [361/204](#),
[363/130](#)

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KW/C	Draw. Doc
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Clear	Generate Collection	Print	Fwd Refs	Bkwd Refs	Generate OACS
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Term	Documents
NONCONDUCTIVE	54511
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NON-CONDUCTIVE	91795
NON-CONDUCTIVES	2
"NON CONDUCTIVE"	0
(16 AND (NONCONDUCTIVE OR NON-CONDUCTIVE OR "NON CONDUCTIVE")).PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD.	5
(L16 AND (NONCONDUCTIVE OR NON-CONDUCTIVE OR "NON CONDUCTIVE")).PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD.	5

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